CLAIMS:

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- 1. A method of measuring blocking artefacts on the basis of video data encoded in accordance with a block-based encoding technique, the method comprising the steps of:
 - computing a monodimensional inverse discrete transform (31) of a first row of a first block of encoded video data, suitable for supplying a value of a first virtual border pixel (vep1),
 - computing a monodimensional inverse discrete transform (32) of a first row of a second block of encoded video data, the second block being adjacent to the first block, suitable for supplying a value of a second virtual border pixel (vep2),
 - computing (33) a blocking artefact level (VEP_L) on the basis of an absolute value of a difference between the values of the first and second virtual pixels.
- 2. A method of measuring blocking artefacts as claimed in claim 1, wherein the virtual border pixels are determined at a point corresponding to a border between the first and second blocks.
- 3. A method of measuring blocking artefacts as claimed in claim 1, wherein the virtual border pixels are determined at points corresponding to the nearest pixel on both sides of a border between the first and second blocks.
- 4. A method of measuring blocking artefacts as claimed in claim 1, wherein the computation of a level of blocking artefacts is weighted by a weighting coefficient which is a function of the properties of the human visual system.
- 5. A method of encoding video data in the form of blocks, the method comprising the steps of:
 - pre-encoding (80) a set of video data blocks (IS) suitable for supplying an assembly of pre-encoded data blocks (PES) and pre-encoding parameters (p),
 - partially decoding (81, 82) the set of pre-encoded data blocks, suitable for supplying transformed data blocks,

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- measuring blocking artefacts (30) as claimed in claim 1, suitable for supplying blocking artefact levels (VEP_L) based on transformed data blocks,
- modifying (83) the pre-encoding parameter (p) of a block in accordance with a blocking artefact level associated with said block, suitable for supplying a modified pre-encoding parameter (p'),
- encoding (84) the assembly of video data (IS) based on modified pre-encoding parameters (p').
- 6. A method of decoding encoded data blocks, the method comprising the steps of:
 - partially decoding (21, 22) the encoded data blocks (1), suitable for supplying transformed data blocks (3),
 - inverse discrete transform (23) suitable for converting transformed data blocks (3) into inversely transformed data blocks (4),
- measuring blocking artefacts (30) as claimed in claim 1, suitable for supplying blocking artefact levels (VEP_L) based on transformed data blocks (3),
 - filtering (70) suitable for applying a filter among a set of filters (71, 72, 73) for an assembly of inversely transformed data on both sides of a border between two blocks in accordance with the blocking artefact level (VEP_L) associated with said border.
 - 7. A method of transcoding encoded data blocks, the method comprising the steps of:
 - partially decoding (101, 102) encoded data blocks, suitable for supplying transformed data blocks with which a first quantization step is associated,
- measuring blocking artefacts (30) as claimed in claim 1, suitable for supplying blocking artefact levels (VEP_L) based on transformed data blocks,
 - partially encoding (103, 104) transformed data blocks, suitable for supplying encoded data blocks, with which a second quantization step is associated,
- storing (105) encoded data blocks in a storage unit, the value of the second
 quantization step of a block being a function of a space available in the storage unit as
 well as of a value of an artefact level of said block.
 - 8. A device for measuring blocking artefacts based on encoded video data in accordance with a block encoding technique, the device comprising:

- means for computing a monodimensional inverse discrete transform of a first row of a first block of encoded video data, suitable for supplying a value of a first virtual border pixel,
- means for computing a monodimensional inverse discrete transform of a first row of a second block of encoded video data, the second block being adjacent to the first block, suitable for supplying a value of a second virtual border pixel,
- a computing unit suitable for computing a blocking artefact level on the basis of an absolute value of a difference between the values of the first and second virtual pixels.

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- 9. A video encoder of data in the form of blocks, the video encoder comprising:
 - means for pre-encoding a set of video data blocks (IS) suitable for supplying an assembly of pre-encoded data blocks (PES) and pre-encoding parameters (p)
 - means for partially decoding the set of pre-encoded data blocks, suitable for supplying transformed data blocks,
 - a device for measuring blocking artefacts as claimed in claim 8, suitable for supplying blocking artefact levels (VEP_L) based on transformed data blocks,
 - a unit for computing a modified pre-encoding parameter (p') based on the preencoding parameter (p) of a block and a blocking artefact level associated with said block,
 - means for encoding the assembly of video data (IS) on the basis of modified preencoding parameters (p').

10. A video decoder of encoded data blocks, comprising

- means for partially decoding encoded data blocks (1), suitable for supplying transformed data blocks (3),
 - means for inverse discrete transform (23), suitable for converting transformed data blocks (3) into inversely transformed data blocks (4),
 - a device for measuring blocking artefacts as claimed in claim 8, suitable for supplying blocking artefact levels (VEP_L) based on transformed data blocks (3),
 - a filtering unit, suitable for applying a filter among a set of filters (71, 72, 73) for an assembly of inversely transformed data on both sides of a border between two blocks in accordance with the blocking artefact level (VEP_L) associated with said border.

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- 11. A video transcoder of encoded data blocks, comprising:
 - means for partially decoding encoded data blocks, suitable for supplying transformed data blocks with which a first quantization step is associated,
 - a device for measuring blocking artefacts as claimed in claim 8, suitable for supplying blocking artefact levels (VEP_L) based on transformed data blocks,
 - means for partially decoding transformed data blocks, suitable for supplying encoded data blocks, with which a second quantization step is associated,
 - a unit for storing encoded data blocks,
 - a computing unit suitable for computing the value of the second quantization step of a block on the basis of a space available in the storage unit and of a value of a blocking artefact level associated with said block.
- 12. A computer program suitable for performing the method of measuring blocking artefacts as claimed in claim 1, when said program is executed by a processor.